

Product Support: Contact Virus Zero at 714-530-5791

Sales Inquiries: Contact Sylvane at (800) 934-9194 or visit sylvane.com

VIRUS ZERO



SPI

Samsung
Super
Plasma ion

Feature of Your Product

Mechanism of ion generation

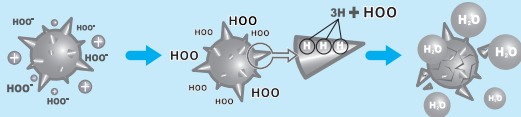
Micro Plasma discharger generates Hydrogen and Oxygen ion(O_2^-)

- Ceramic electrode (+ electrode) : Micro plasma discharger splits water molecules in the air and forms positively charged hydrogen atoms (H^+).
- Pin electrode (- electrode) : High-voltage electric discharger emits electrons (e) which react with H^+ and O_2 to form Hydrogen atom (H) and Oxygen ion (O_2^-).
- Hydrogen atom (H) and Oxygen ion (O_2^-) together form Hydroperoxyl radicals (HO_2^\cdot).

Excellent air purifying technology

SPI generates Hydrogen atom (H^+) and Oxygen ion (O_2^-) which reacts together to form Hydroperoxyl radicals which the positively charged biological contaminants then reacts with three hydrogen elements of its protein structure before forming water vapor. Also, the Hydrogen atom(H) will combine with OH-radical to form a water vapor and neutralize harmful OH-radical.

Virus Elimination Mechanism



Perfect Elimination of Biological Contaminant

SPi eliminates biological contaminants (such as bacteria, viruses, molds etc.) more effectively in airtight area.

Anti Allergen

SPI eliminates harmful allergens (such as dust mites, dusts, dog and cat hair) which can cause rhinitis, asthma or other allergic symptoms.

World Recognized Technology

SPI technology is tested from many academic organizations in Korea, Japan and United Kingdom etc. The SPI technology was applied on Samsung home appliances and effectiveness of the technology was proven all around the world.

You can use it at home or in your car

Virus Zero will make sure to keep you healthy by providing the clean air at home and even when you are driving your car.

Stylish design

Simple and luxury style allow you to place the product in any interior or automobile.



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Note

Recommended instructions or useful information for use.



Safety Information

Please read and follow the instructions in this manual for safety of user and to prevent any possible damage or loss of property.

⚠ WARNING Hazards or unsafe practices that may result in severe personal injury or death.

⚠ CAUTION Hazards or unsafe practices that may result in minor personal injury or property damage.

Power supply

- ⊘ Never use a damaged power plug, dusted power cable or loosened power receptacle.



▶ Potential risk of fire or electric shock.

- ⊘ Do not yank the power cable and touch the power plug with wet hands.



▶ Potential risk of fire or electric shock.

- ⚠ Do not use the multi outlet.



▶ Potential risk of fire or electric shock.

- ⚡ If the air product is not going to be used for an extended period of time, unplug the power from the wall.



▶ You can save energy and prevent fire.

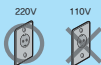
- ⊘ Do not unplug the power cable to turn off the power.



▶ There is potential risk of product damage or electric shock. Use the power button to turn off the power.

⚠ WARNING

- ⊘ Do not use the product connected to unrated power supply.



▶ Product may not operate normally and there is potential risk of fire.

- ⚡ Connect the power plug to a grounded receptacle.



▶ Potential risk of fire or electric shock.

- ⊘ Use the authorized power cable only.



▶ Potential risk of fire or electric shock.

- ⊘ Do not bend the power cable excessively or place heavy object on the power cable.



▶ Potential risk of fire or electric shock.

- ⚠ Follow the direction carefully.
- ⊘ Do not attempt.
- ⚡ Make sure the machine is grounded to prevent electric shock.
- 🔌 Unplug the power plug from the wall socket.
- ⊘ Do not disassemble.

Installing

- ⊘ Do not place the product near hazardous substances or equipment that release free flames to avoid fire, explosions or injuries.



- ▶ Potential risk of explosion or fire.

⚠ WARNING

- ⊘ Install the product away from direct exposure to sunlight, heating appliance and humid places.



- ▶ There are potential risk of electric shock and performance decrease.

Installing

- ⊘ Do not install the product in uneven or sloped surface.



- ▶ If the product falls, it can be damaged or perform abnormally.

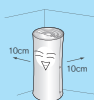
⚠ CAUTION

- ⊘ Do not install the product in a place with oil fume or metallic dust.



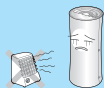
- ▶ Potential risk of fire or product damage.

- ⊘ Make sure to clear at least 10cm around the product.



- ▶ If you can clear space around the product, it may cause performance decrease.

- ⊘ Do not install the product near heating appliance such as stove.



- ▶ Potential risk of fire.



Safety Information (Cont'd)

Operating (Residential)

WARNING



Do not apply a shock or pull the appliance with excessive power.



▶ This may result in fire, injury or a problem with the product.



If the product generates a strange noise, a burning smell, or smoke is emitted, unplug the power plug immediately and contact service center.



▶ Potential risk of fire or electric shock.



Do not attempt to repair, disassemble, or modify the appliance yourself.



▶ Potential risk of product damage, electric shock or fire. Contact service center when repair is needed.



If the appliance is flooded, contact nearest service center.



▶ Potential risk of fire or electric shock.



Do not insert fingers or foreign substances into the ion outlet.



▶ Potential risk of product damage or electric shock.



Make sure there is no obstacle near air inlet or the ion outlet.



▶ It may cause product damage or performance decrease.

Operating (Residential)



- ⊘ If the power cable or the plug is damaged, the manufacturer or a qualified service technician must replace it.

- ⊘ Do not touch the ion outlet while product is operating.



▶ Potential risk of product damage or electric shock.

- ⊘ Do not use the product in airtight space or place with young children or senior.



▶ It may become dangerous due to lack of oxygen.

- ⊘ Do not use the supplied power cable with any other products.



▶ Potential risk of product damage or electric shock.

- ⊘ Make sure children does not touch or use the product.



▶ If the product falls, they may get injured.

- ⊘ Ensure no water gets into the product.



▶ Potential risk or electric shock.
▶ If the water gets into the product, stop the operation and unplug the power cable.

- ⊘ Do not spray inflammable gases such as insecticide near the product.



▶ Potential risk of electric shock, fire or unit malfunction.



Safety Information (Cont'd)

Operating (Automobile)

! WARNING

- ⊘ Make sure the power is rated.

DC12V



- ▶ Potential risk of electric shock or burn.

- ⊘ Do not touch the metal part of the adapter.



- ▶ Potential risk of electric shock or burn.

Operating (Automobile)

! CAUTION

- ⊘ Make sure the product is securely fixed (in a cup holder etc.) within the car.



- ▶ If the product falls, it can be dangerous and may cause accident.
- ▶ If the product falls, you may get injured and the product may get damaged.

- ⊘ Do not operate the buttons while driving.



- ▶ Potential risk of car accidents.

- ⊘ Use the supplied car adapter and make sure it is fully inserted.



- ⊘ Do not operate the product with the spray type insecticide.

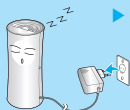


- ▶ Potential risk of fire.

Cleaning

! WARNING

- ⚡ Unplug the power before cleaning the product.



▶ Potential risk of personal injury or electric shock.

- ⚡ Unplug the power before changing the air filter.



Cleaning

! CAUTION

- ⊘ Do not spray water directly on the product or use benzene, thinner or alcohol to clean the product.



▶ Potential risk of fire or electric shock.
▶ It may damage the surface of the product.

- ⊘ Clean the dusts on the power plug pins.



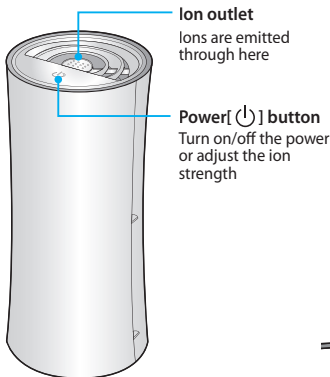
▶ Potential risk of fire or electric shock.



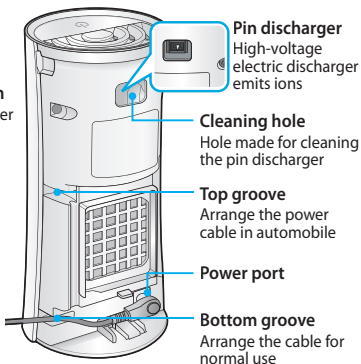
Checking the Parts/Components

Make sure you have all the components included in your package and learn the part names of the product before using it.

Front



Back



Checking the components



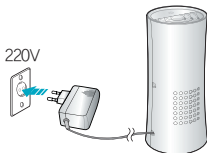
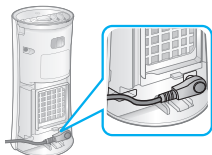
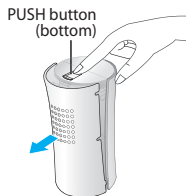
Product Residential adapter Car adapter Cleaning brush User manual

- ※ Your product may look slightly different from the real product.
- ※ Adapter may be different depending on the product (Residential/Automobile/Both).
- ※ To purchase additional adapter, contact service center(714-530-5791).



Installing the Product

Avoid direct sunlight when installing in the residence.



For residential

- 1** Turn the product upside down and press the [PUSH] button.
 - ▶ Pull the cover while pressing the [PUSH] button.
 - ▶ Cover will be disassembled.
- 2** Connect the residential adapter to the power port.
 - ▶ For stable performance, make sure to arrange the power cable through the bottom groove.
- 3** To close the cover, put the top part of the cover in the groove and push the bottom part of the cover until it clicks.
- 4** Connect the residential adapter to the receptacle.

CAUTION

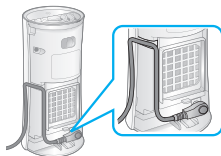
- Performance of the product may decrease in a place with low humidity(below 20%).



Installing the Product

When using the product in an automobile, it is recommended to place the product on the cup holder.

PUSH button
(bottom)



For automobile

- 1 Turn the product upside down and press the [PUSH] button.
 - ▶ Pull the cover while pressing the [PUSH] button.
 - ▶ Cover will be disassembled.
- 2 Connect the Car adapter to the power port.
 - ▶ For stable performance, make sure to arrange the power cable through the top groove.
- 3 To close the cover, put the top part of the cover in the groove and push the bottom part of the cover until it clicks.
- 4 Place the product in the cup holder.
- 5 Connect the car adapter to the cigar jack port.

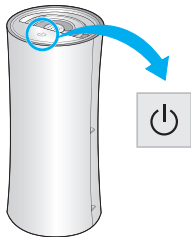
CAUTION

- Performance of the product may decrease in a place with low humidity(below 20%).






Operating the Product

You can turn the power on/off and adjust the ion strength.



Using the product

- 1** Press the [] button once.
 - ▶ Product will turn on and the light will turn blue. Ion strength will set on (High) automatically.
- 2** Press the [] button again.
 - ▶ Light will turn green. Ion strength will set on (Low).
- 3** Press the [] button again.
 - ▶ Power and the light will turn off.

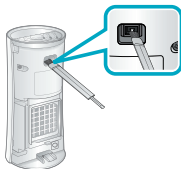
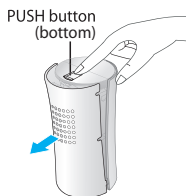
Each time you press the button, function will change in following order.





Cleaning the Product

Turn off the power and unplug the adapter before cleaning the product.



Cleaning the exterior

- 1 Wipe the surface of the product with a slightly wet or dry cloth when needed.

► Use the cleaning brush to clean the dust or other foreign substances on the ion outlet.

CAUTION

- Do not spray water directly on the product or use alkaline detergent and organic solvent (Benzene, thinner or alcohol) to clean the product. They may damage the surface of the product or cause fire and electric shock.

Cleaning the pin discharger

- 1 Turn the product upside down and press the [PUSH] button.

► Pull the cover while pressing the [PUSH] button.
► Cover will be disassembled.

- 2 Use the cleaning brush to clean the tip of the pin discharger as shown in the picture.

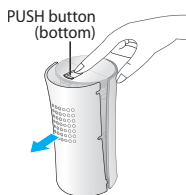
► Use the cleaning brush and clean the pin discharger through the cleaning hole.

- 3 To close the cover, put the top part of the cover in the groove and push the bottom part of the cover until it clicks.



Note

- Clean the Pin discharger every two weeks. The cleaning term may differ on usage and environmental condition. Accumulated dust on the pin discharger may cause performance decrease.



Cleaning the air filter

- 1 Turn the product upside down and press the [PUSH] button.
 - ▶ Pull the cover while pressing the [PUSH] button.
 - ▶ Cover will be disassembled.
- 2 Remove the air filter located in the inside of the cover by pressing it down as arrow shows and then pulling it .
- 3 Clean the air filter with cleaning brush or running water.
 - ▶ After cleaning the air filter in running water, dry it completely in the shade.
- 4 Replace the air filter by putting the bottom part of the filter in the groove first and then push it until it clicks.
- 5 To close the cover, put the top part of the cover in the groove and push the bottom part of the cover until it clicks.

CAUTION

- Clean the air filter every two weeks. The cleaning term may differ on usage and environmental condition.



Troubleshooting

Check the following list before reporting the problem.

Problem	Check	Solution
Product is not operating.	Check if there is power failure.	Make sure that the power is on before trying again.
	Check if the power plug is properly connected.	Connect the power plug properly and try again.
	Check if the adapter is working properly.	Try another power receptacle.
	Check if the red light is blinking.	Unplug the adapter and contact Customer center.
Strange odors permeate in the room during operation.	Check if you are using the product in a place with smoke or other odor.	It can be less effective when the product is being used in a place with excessive odor or smoke. Ventilate the area before using the product.
	Check if there is dust or foreign substances on the ion outlet.	Clean the ion outlet and operate the product.
Not sure if the product is operating.	Check if the light is on.	Press the [(L)] button to turn on the product.
There is no air coming out.	Check if the air filter is blocked with dust.	Clean the air filter if it is dirty.
Noise is coming out from the product.	Check if the ion outlet is blocked.	Remove any obstacles blocking the ion outlet.



Product Specification

Type	Residential	Automobile	Both
Model name	SP-PD4 Series	SP-PC4 Series	SP-PA4 Series
Dimension (Diameter X Height)	63.4 x 159 mm		
Rated Voltage	AC220V	DC12V	AC220V/DC12V

- Due to ongoing improvement of the product, specification and design may change without prior notice.

A large rectangular area with a light blue background and rounded corners, containing 25 horizontal dotted lines for writing.

Product Warranty

Product warranty is for 1 Year

About warranty service

Mag & Brook, Inc. provide warranty service according to following guideline stated below. When the product repair is required, Mag & Brook, Inc. will provide warranty service and the detail status of the product will be notified within 7 days and the refund or product exchange will be done within a 14 days from repair request.

Product Name	Model Name
Date of Purchase	Serial No.
Place of Purchase	Price

If the product is used in commercial place, warranty period will be shortened by half.

Free warranty service		Paid service
■ Type of defects or trouble	Within warranty period	After warranty expires
When the product shows performance or functional failure within the part service period.		
■ Critical performance and functional failure within 10 days from purchasing the product	Exchange or refund	N/A
■ Critical performance and functional failure within a month from purchasing the product	Exchange or free repair	N/A
■ Defect occurred during shipping or installation	Exchange	N/A
■ Critical performance and functional failure within a month from product exchange	Refund	N/A
■ When product exchange is impossible	Refund	N/A
■ When same failure occurred twice	Free repair	Paid service
■ When same failure occurred three times	Exchange or refund	Paid service
■ When different failures occurred five times	Exchange or refund	Paid service
■ When the product is lost during repair service	Exchange or refund	Refund the price deducted by the depreciation amount and added by its 10%
■ When the product repair is impossible because parts are not in stock within the part service period	Exchange or refund	Refund the price deducted by the depreciation amount and added by its 10%
If the product defect is caused by user		
■ When repair is impossible even though the parts are available	Refund after equivalent repair service fee is charged	Refund the price deducted by the depreciation amount after equivalent repair service fee is charged
■ When the product repair is possible	Paid service	Paid service
※ Service fee will be charged if the product repair is requested when the product is not defected.		
		When the product is not defected
		■ Re-installation is required due to false installation by installation agency or repair doesn't require disassembling.
		■ When the product requires internal cleaning and re-installation due to moving, false installation or other reasons.
		When the defect is caused by user
		■ Defects caused by careless handling or improper repairing and modification.
		■ Defects caused by using improper power supply.
		■ Defects caused by repairs done at a place other than the Mag & Brook, Inc
		■ Defects or damages resulting from dropping the product.
		■ Defects caused by using accessories not provided by Mag & Brook, Inc
		■ Defects caused by not following the 'Safety information' on the user manual
		Others
		■ Defects resulting from natural disasters such as fire, earthquake, flood, etc.
		■ Expiry of life time of consumable parts (filters etc.)

Distributor / Manufacturer : Mag & Brook, Inc.
Device provider : Samsung Electronics Co., Ltd.

Mag & Brook, Inc. ■ Customer Service Center
714-530-5791

Let us know the product model, problem and the contact information. We will try to provide you with the fast and satisfying solution.